

SEQUENCE LISTING

<110> Jing, Shuqian

<120> Transforming Growth Factor-Beta-Related Molecules and
Uses Thereof

<130> 00-659-A

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<150> 60/253,476

<151> 2000-11-28

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<170> PatentIn Ver. 2.0

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<222> (80)..(502)

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Ile Ser Asn Val Glu Gln Leu Ile Leu Gly Ile Pro Gly Gln Asn Arg
15 20 25

cgg gag ata ggc cat ggc cag gat atc ttt cca gca gag aag ctc tgc 208
Arg Glu Ile Gly His Gly Gln Asp Ile Phe Pro Ala Glu Lys Leu Cys
30 35 40

cat ctg cag gat cgc aag gtg aac ctt cac aga gct gcc tgg ggc gag 256
His Leu Gln Asp Arg Lys Val Asn Leu His Arg Ala Ala Trp Gly Glu
45 50 55

tgt att gtt gca ccc aag act ctc agc ttc tct tac tgt cag ggg acc 304
Cys Ile Val Ala Pro Lys Thr Leu Ser Phe Ser Tyr Cys Gln Gly Thr
60 65 70 75

tgc ccg gcc ctc aac agt gag ctc cgt cat tcc agc ttt gag tgc tat 352
Cys Pro Ala Leu Asn Ser Glu Leu Arg His Ser Ser Phe Glu Cys Tyr
80 85 90

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Lys Arg Ala Val Pro Thr Cys Pro Trp Leu Phe Gln Thr Cys Arg Pro

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Ser				
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Lys Val Asn Leu His Arg Ala Ala Trp Gly Glu Cys Ile Val Ala Pro	
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Lys Thr Leu Ser Phe Ser Tyr Cys Gln Gly Thr Cys Pro Ala Leu Asn	
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Thr Cys Pro Trp Leu Phe Gln Thr Cys Arg Pro Thr Met Val Arg Leu	
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Lys	Thr	Lys	Ile	Pro	Ala	Thr	Asp	Val	Ala	Asp	Ala	Ser	Leu	Asn	Glu	
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Cys	Ser	Ser	Thr	Glu	Arg	Lys	Gln	Asp	Val	Val	Leu	Leu	Phe	Val	Thr	
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Asn	Arg	Arg	Glu	Ile	Gly	His	Gly	Gln	Asp	Ile	Phe	Pro	Ala	Glu	Lys	
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Leu Ser His Thr Gln Pro Pro Leu Phe His Leu Pro Tyr Val Gln Lys
50 55 60
Pro Leu Ile Ser Asn Val Glu Gln Leu Ile Leu Gly Ile Pro Gly Gln
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Asn Arg Arg Glu Ile Gly His Gly Gln Asp Ile Phe Pro Ala Glu Lys
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145 150 155 160
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 Gly Leu Phe Leu Glu Ile Leu Val Lys Glu Asp Arg Asp Ser Gly Val
 50 55 60
 Asn Phe Gln Pro Glu Asp Thr Cys Ala Arg Leu Arg Cys Ser Leu His
 65 70 75 80
 Ala Ser Leu Leu Val Val Thr Leu Asn Pro Asp Gln Cys His Pro Ser
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 Arg Lys Arg Arg Ala Ala Ile Pro Val Pro Lys Leu Ser Cys Lys Asn
 100 105 110
 Leu Cys His Arg His Gln Leu Phe Ile Asn Phe Arg Asp Leu Gly Trp
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 130 135 140
 Gly Glu Cys Pro Phe Ser Leu Thr Ile Ser Leu Asn Ser Ser Asn Tyr
 145 150 155 160
 Ala Phe Met Gln Ala Leu Met His Ala Val Asp Pro Glu Ile Pro Gln
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 Ala Val Cys Ile Pro Thr Lys Leu Ser Pro Ile Ser Met Leu Tyr Gln
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 35 40 45
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Pro Leu Ile Ser Asn Val Glu Gln Leu Ile Leu Gly Ile Pro Gly Gln
50 55 60
Asn Arg Arg Glu Ile Gly His Gly Gln Asp Ile Phe Pro Ala Glu Lys
65 70 75 80
Leu Cys His Leu Gln Asp Arg Lys Val Asn Leu His Arg Ala Ala Trp
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<400> 14
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 1 5 10

<210> 15
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: internalizing
 domain derived from HIV tat protein

<400> 15
 Gly Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
 1 5 10 15

<210> 16
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer
 2445-27

<400> 16
 ctcatattca aaatcagagg gaggg 25

<210> 17
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer
 2445-28

<400> 17
 gtttactcac gtattggatg gaggtg 26

<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer
2445-29

<400> 18
ctctaattgtg gagcagctga tc 22

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer
2450-21

<400> 19
cagcagagaa gctctgccat ctgc 24

<210> 20
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer
2445-30

<400> 20
gagcagccac acgggttctc caccaag 27

<210> 21
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer
2445-31

<400> 21
gaagtgttca catagtgcac actc 24

<210> 22
<211> 23
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
2445-32

<400> 22

ctcatcttgt gttcgtcatc ctg

23

<210> 23

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
2445-22

<400> 23

gaccatcagg gagaagagtc tgac

24

<210> 24

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RACE primer
1916-83

<400> 24

ggctcgtatg ttgtgtggaa ttgtgagcg

29

<210> 25

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RACE primer
1916-80

<400> 25

tgcaaggcga ttaagttggg taacgccag

29

<210> 26

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RACE primer
1916-82

<400> 26
catgattacg ccaagctcta atacgactc

29

<210> 27
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RACE primer
1916-81

<400> 27
tcacgacgtt gtaaaacgac ggccagtg

28

1916-81